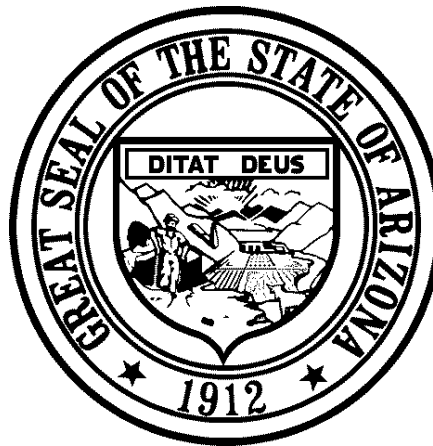


ARIZONA DEPARTMENT OF WATER RESOURCES

SURFACE WATER DIVISION

Dam Safety Section



INSTRUCTIONS FOR FILING AN APPLICATION

INTRODUCTION

This guide for filing an application has been prepared to facilitate the applicant's understanding of the application process. Any omissions or errors do not relieve the applicant from complying with applicable sections of Arizona Revised Statutes (A.R.S.) Title 45-Waters, Chapter 6 and Arizona Administrative Code (A.A.C.) Title 12-Natural Resources, Chapter 15-Department of Water Resources. The applicant must review and comply with these documents.

Arizona Revised Statutes Title 45, Chapter 6, Article 1 A.R.S. §§ 45-1203, A.R.S. 45-1206 and A.R.S. 45-1207 require written approval of an application prior to construction of a new dam, or the enlargement, repair, alteration or removal of an existing dam. The application process must comply with A.A.C. R12-15-1207, which also defines specific situations that do not require an application.

In accordance with A.A.C. R12-15-1207, an applicant must contact the Arizona Department of Water Resources' (Department) Dam Safety Program at (602) 417-2445 to schedule pre-application conferences. These conferences are to discuss the requirements of the Director for specific applications and to answer any questions. In accordance with A.R.S. § 45-1214 and A.A.C. R12-15-1207, Dam Safety staff will visit the dam site with the applicant during the pre-application period. Depending on the hazard classification and type of proposed construction, an application must comply with the following:

- To construct, reconstruct, repair, enlarge or alter a high or significant hazard potential dam, an application must comply with the A.A.C. R12-15-1208.
- To breach or remove a high or significant hazard potential dam, an application must comply with A.A.C. R12-15-1209.
- To construct, reconstruct, repair, enlarge, alter, breach or remove a low hazard potential dam, an application must comply with A.A.C. R12-15-1210.
- To construct, reconstruct, repair, enlarge, alter, breach or remove a very low hazard potential dam, an application must comply with A.A.C. R12-15-1211.

All application packages must be prepared in duplicate and received by the Department's Office of Water Engineering by appointment. The Office of Water Engineering is located at 500 North Third Street, Phoenix, Arizona 85004-3903; telephone number (602) 417-2445.

In addition to the duplicate application form provided by the Director, two complete sets of construction documents including engineering drawings, specifications, engineering reports, calculations and other supporting information must be submitted to the Department by appointment with the proper filing fee. The required documents are described in detail in the Department's guide titled "Checklist of Items Required for a Complete Application," which must also be completed and included with the application. These documents must be prepared by a professional engineer registered in Arizona to a level of detail appropriate for construction. The design engineer must be experienced in the design and construction of dams. The engineer's professional seal and signature must appear on all submitted drawings, specifications, engineering reports and calculations.

As prescribed in A.R.S. § 45-1204 and A.A.C. R12-15-151, no application shall be given consideration unless accompanied by a filing fee based on the estimated cost of the project (see the following section on Fee Requirements), as well as all required supporting documentation. The Director may waive or increase any requirements for information to accompany an application. During the appointment where the Department receives the application, a brief review of the application will be conducted to determine if the application contains each of the items required in the "Checklist of Items Required for a Complete Application" pursuant to A.A.C. R12-15-1208, R12-15-1209, R12-15-1210 or R12-15-1211, as applicable.

Following receipt of an application and fee, the Department will conduct an administrative review of the application and supporting documentation defined in the “Checklist of Items Required for a Complete Application” and notify the applicant in writing whether the application is administratively complete. If the application is not administratively complete, the notification will include a list of additional information that is required to complete the application. The Department will also notify other agencies that we have received an application.

In accordance with A.A.C. R12-15-401 and A.A.C. R12-15-1207, the administrative completeness review time frame is 120 days from the day the Department receives the application. The time frame is suspended once a notification requesting additional information is mailed until the date the applicant responds with the additional information. Additional information requested must be supplied within 60 days of the date of the notice, or within another time frame agreed upon by the Department. Failure to complete the application within the specified time frame may deem the application withdrawn and the Department would close the file.

After the application has been determined to be administratively complete (i.e., contains all the required supporting documentation completed to a level of detail appropriate for construction), the Department will begin a substantive review. The substantive review time frame is 60 days from the day the Department determines that the application is administratively complete. The Department will notify the applicant in writing of any defects and conduct one or more conferences, if necessary, to delineate revisions to the documents that will meet the Department’s substantive review requirements. The time frame is suspended once a notification requesting additional information is mailed and until the date the applicant responds with the additional information.

Once the Department has completed its substantive review, the applicant will be notified in writing that the application is either approved or denied. If the application is denied, the Department will provide written justification for the denial and a written explanation of the applicant’s right to appeal.

After the Department has completed its substantive review and approved the application, revised sets of construction documents (engineering drawings, specifications, construction quality assurance plan and construction schedule) incorporating any required changes must be submitted in triplicate to the Department to receive the Department’s approval stamp. One set of the construction documents, containing the Department’s approval stamp, will be returned to the applicant and must be retained on site during construction, one set will be retained for permanent State record and another will be retained for use by the Department during construction. In addition to the construction documents, a revised engineering design report may also be required. An operation and maintenance plan and an emergency action plan must also be submitted unless they are planned to be submitted during construction pursuant to A.A.C. R12-15-1208(B) or as otherwise approved by the Director.

FEE REQUIREMENTS

Payment of the filing fee is required pursuant to A.R.S. § 45-1204 and A.A.C. R12-15-151 for all applications. The Department may not consider or permit construction until the filing fee has been paid. The fee is based upon the total project costs associated with construction of the dam and appurtenant works integral to the design and safe operation of the dam. Preliminary investigations and surveys, engineering designs, the Department's application requirements, administration and supervision of construction and any other engineering costs related to construction shall also be included.

Based upon these total costs and pursuant to A.A.C. R12-15-151(B)(11), the fee will be computed to the nearest dollar according to the following schedule:

- For the first \$100,000 of the estimated cost, two (2.0 %) percent.
- For the next \$400,000, one and one-half (1.5 %) percent.
- For the next \$500,000, one (1.0 %) percent.
- For all costs in excess of \$1,000,000, one-half of one (0.5 %) percent.

Example estimated fee calculation (fee must accompany the application):

<i>ESTIMATED COST</i>	\$6,420,000.00
2% x \$100,000.....	2,000.00
1.5% x \$400,000.....	6,000.00
1% x \$500,000.....	5,000.00
0.5% x \$5,420,000.....	27,100.00
	<hr/>
	+
<i>ESTIMATED FEE</i>	\$ 40,100.00

Upon completion of the project, pursuant to A.R.S. § 45-1209(C) the actual total cost shall be tabulated using the sample Affidavit of Total Cost shown in the Department's document titled "Requirements During and Following Construction of High and Significant Hazard Dams." The application fee must be recomputed using the Example Final Fee Calculation also shown in the Department's document titled "Requirements During and Following Construction of High and Significant Hazard Dams." If the recomputed fee exceeds the fee paid with the application by \$50.00 or more, then the owner shall pay the difference between the fee already paid and the recomputed fee. If the recomputed fee is less than the original fee by an amount of \$50.00 or more, then the owner shall be entitled to a refund by the amount of the difference between the fee already paid and the recomputed fee.

LIST OF REFERENCES

Included below is a brief list of references, which have proved useful in solving basic dam design problems. The list is not all-inclusive. Many of these references include comprehensive bibliographies, which may provide additional assistance in locating more detailed or more recent reference materials. When complex dam design problems are encountered, it is advisable to retain a qualified specialist engineer.

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